

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) Equipment for printing on non-woven-fabric, comprising a support driven such as to transport a sheet of non-woven-fabric, at least one driven printing body in order to carry out the printing, a control and command unit operatively connected with each of said support and at least one printing body, and an image acquiring device operatively connected to said control and command unit, said image acquiring device constantly monitoring said non-woven fabric in order to detect the presence of creases or variations in the printing with respect to a preset standard, wherein said image acquiring device acquires an image of said non-woven fabric and sends electrical signals representative of said acquired image to said control and command unit and wherein said control and command unit detects electrical signals originating from said image acquiring device, turns said compares said electrical signals with standard data stored in said control and command unit, and if any differences are detected, said control and command unit sends electrical signals into numerical values representative of the status of their angular speed and torque moment, compares said numerical values with ratios of preset numerical values of said angular speed and said torque moments and sends signals to said support and at least one printing body in order to correct any possible variations in said values which fall out with said ratios modify their respective angular speeds and torque moments to correct said differences.

2. (Previously Presented) The equipment according to claim 1, wherein said support is driven by means of a motor and wherein said at least one printing body is driven by a motor.

3. (Previously Presented) The equipment according to claim 1, wherein said driven support is provided with through holes which cooperate with holding means in order to hold the sheet of non-woven-fabric onto said support.

4. (Previously Presented) The equipment according to claim 1, wherein said support is a cylindrical support represented by a press roller.

5. (Previously Presented) The equipment according to claim 1, wherein said support is a press belt.

6. (Previously Presented) The equipment according to claim 5, wherein said press belt is a perforated belt closed on itself.

7. (Previously Presented) The equipment according to claim 1, wherein said at least one printing body comprises from two to twelve rotating engraved rollers operated individually and independently by motors.

8. (Previously Presented) The equipment according to claim 3, wherein said holding means comprise suction fans having the function of sucking air from the outside of the support towards its inside through said through holes.

9. (Previously Presented) The equipment according to claim 8, wherein said suction fans are represented by fans.

10. (Previously Presented) The equipment according to claim 8, wherein said suction fans are represented by pumps of the compressor or vacuum pump type.

11. (Previously Presented) The equipment according to claim 8, wherein said suction fans are connected to a water separator.

12. (Previously Presented) The equipment according to claim 11, wherein said separator is a condenser.

13. (Previously Presented) The equipment according to claim 11, wherein said separator separates the water from the air by mechanical and physical action.

14. (Previously Presented) The equipment according to claim 13, wherein said separator is a coclea-shaped distillator.

15. (Previously Presented) The equipment according to claim 1, further comprising guide means suitable to guide and support the inlet and outlet sheet of non-woven-fabric from said equipment.

16. (Previously Presented) The equipment according to claim 15, wherein said guide means are rollers individually and independently motor-driven by corresponding motors.

17. (Previously Presented) The equipment according to claim 15, wherein at least one pair of said guide means are positioned at the ingoing non-woven-fabric into the printing stations and consist of widening means which allow increasing the height of the non-woven-fabric.

18. (Canceled)

19. (Previously Presented) The equipment according to claim 16, wherein said device is a camera or a video camera.

20. (Currently Amended) The equipment according to claim [[18]] 1, wherein said image acquiring device is a digital device.

21. (Currently Amended) A process for the printing of non-woven-fabric comprising the steps of:

providing a non-woven-fabric sheet;

providing an equipment for printing on ~~non-woven-fabric~~ non-woven-fabric comprising a driven support for the transportation of said non-woven-fabric and at least one driven printing body;

feeding said equipment with said non-woven-fabric sheet;

performing the printing on said non-woven-fabric under the control and command of a control and command unit, and

constantly monitoring said non-woven fabric with an image acquiring device in order to detect the presence of creases or variations in the printing with respect to a preset standard;

wherein said image acquiring device acquires an image of said non-woven fabric and sends electrical signals representative of said acquired image to said control and command unit; and

wherein said control and command unit ~~is operatively connected with said image acquiring device such as to detect~~ detects the electrical signals originating from said image acquiring device, ~~turning said~~ compares said electrical signals with standard data stored in said control and command unit, and if any differences are detected, said control and command unit sends electrical signals ~~into numerical values representative of the status of their angular speed and torque moment, comparing said numerical values with ratios of preset numerical values of said angular speeds and said torque moments and sending signals to said support and at least one printing body in order to correct any possible variations of said values which fall out with said ratios~~ modify their respective angular speeds and torque moments to correct said differences.

22. (Original) The process according to claim 21, wherein said control and command unit acts separately and independently on each motor which operates the corresponding rotating body of the equipment such as to make reference to the same electrical axis.

23. (Canceled)

24. (Previously Presented) The process according to claim 21, further comprising an operation stage of holding means in order to hold the non-woven-fabric sheet onto the outer surface of the support.

25. (Original) The process according to claim 24, wherein said operation stage of the holding means is achieved by suction fans which, by sucking air from the outside towards the inside of the support through through holes, hold the non-woven-fabric onto said support.

26. (Previously Presented) The process according to claim 24, also comprising a control stage of the operation of the holding means by said control and command unit.

27. (Previously Presented) The process according to claim 25, comprising a separation stage of the water from the air sucked in by the suction fans.

28. (Previously Presented) The process according claim 21, wherein the printing stage occurs by means of flexographic (ink) or serigraphic (colored paste) methods.

29. (Previously Presented) The process according to claim 28, comprising a dye control stage by the control and command unit through the optimization of the characteristics of each dye, such as flow, pressure and viscosity, depending on the type of non-woven-fabric to be printed.

30. (Previously Presented) The process according to claim 21, comprising a widening stage in order to ensure the maintenance of the product height.

31. (Previously Presented) The process according to claim 21, wherein printing takes place at a speed of up to 400 m/min on a sheet of wet or dry non-woven-fabric.

32. (Previously Presented) Non-woven-fabric obtainable by means of the process according to claim 21.

33. (Previously Presented) The non-woven-fabric according to claim 32 characterized by having multicolor text and/or drawings.

34. (Currently Amended) Equipment for printing on non-woven-fabric, comprising a driven support provided with through holes so as to transport a sheet of non-woven-fabric, at least one driven printing body for implementing the printing and driven holding means which interacts

with said support in order to hold said sheet onto said support, and an image acquiring device operatively connected to a control and command unit, the image acquiring device constantly monitoring the non-woven fabric in order to detect the presence of creases or variations in the printing with respect to a preset standard, wherein the image acquiring device acquires an image of the non-woven fabric and sends electrical signals representative of the acquired image to the control and command unit, and wherein the control and command unit detects electrical signals originating from the image acquiring device, ~~turns the~~ compares said electrical signals with standard data stored in said control and command unit, and if any differences are detected, said control and command unit sends electrical signals into numerical values representative of the status of their angular speed and torque moment, compares the numerical values with ratios of preset numerical values of the angular speed and said torque moments and sends signals to said support and at least one printing body in order to correct any possible variations in the values which fall out with said ratios modify their respective angular speeds and torque moments to correct said differences.